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ELECTRONIC SOURCING SYSTEM

5 Background of the Invention

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This invention relates to systems and methods for interfacing product information, such as is typically found in vendor catalogs that are provided to customers, and requisition/purchasing systems and methods that may use the results of searches of product information.

There are a number of known requisition/purchasing systems that manage and process requisitions and purchase orders. One such system is the Fisher Scientific Requisition and Inventory Management System ("Fisher RIMS"), described in co-pending patent application Serial No. 08/042,168, filed April 2, 1993, and assigned to Fisher Scientific Company of Pittsburgh, Pennsylvania, the disclosure of which is incorporated herein by reference. As its title suggests, Fisher RIMS can also manage inventory. In the Fisher RIMS system, requisition records are created from a real-time interaction between a host computer (generally a mainframe) and a local computer (generally at a customer site), with each computer using data from its own respective database of inventory in conjunction with information entered by a customer service representative operating the local computer. By accessing its respective database, each computer can build and transmit to the other computer communications blocks of data relating to a particular requisition of an item in inventory (or to the management of the inventory itself). The other computer can then use the received data to continue processing of the requisition. Thus, requisition records are created from a real-time interaction between the host and local

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computers, with each computer using data from its respective database in conjunction with information entered by a customer service representative operating the local computer.

5 Other requisition/purchasing systems can be grouped broadly into four classes. First, requisition management systems licensed to corporations purchasing for their own use include ORION software (from Medical Management Systems), ENTERPRISE software (from ESI),
10 and NOVA software (from Johnson & Johnson). Second, there exist systems provided by distributors for transmitting orders to them in proprietary formats. Such systems include QUICKLINK (from Abbott), ASAP system (from Baxter) and LIGHTNING system (from Fisher
15 Scientific). Third, software packages licensed by software developers to customers and/or suppliers enable the transmission of customer purchase orders as EDI purchase orders (in ANSI X.12 format). Examples of such systems include ON-CALL EDI (from TSI
20 International), EDI Express software (from General Electric Information Services) and GETRAN software (from Sterling Software). Fourth, comprehensive business management packages such as REAL WORLD software (from Real World Corporation of Concord, NH)
25 and ASK software (from The ASK Group) contain a purchasing module to create replenishment orders when inventoried items fall below restocking points. The same purchasing module can also be used to place spot orders for products keyed in by the customer's
30 purchasing personnel.

 None of these known requisition/purchasing systems (including Fisher RIMS), however, provides a capability for a user readily to search for and locate information about the products that may be
35 requisitioned and ordered in connection with the

requisition/purchasing system. They also do not provide the capability for a user to search a database containing two or more vendor catalogs, and then to transfer information about the items selected as a result of such searches into a requisition/purchasing system such as Fisher RIMS for building a requisition for the catalog items.

Computer systems that are capable of searching databases containing a product catalog of a particular vendor, for example on CD-ROM, are also known. Such systems can search for user requested information about products and create orders which the user can save, print or, in some cases, facsimile directly to a vendor. The known computer systems for searching vendor catalogs are limited in that only one such vendor catalog is accessible to a user at any given time. They are also limited in that they can only create an order within the particular vendor catalog database. They cannot source items to be requisitioned from a database containing multiple catalogs or interact with a requisition/purchasing system (such as Fisher RIMS) to create a purchase order or orders including the items located from that sourcing operation.

Thus, it would be desirable to provide an electronic sourcing system that provides a means for transferring information between a requisition/purchasing system that may use the results of a search of product information and a means for searching large volumes of product information such as would be included in a vendor product catalog or catalogs.

It would also be desirable to provide such an electronic sourcing system that is capable of searching a database containing at least two vendor product catalogs for product information.

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In accordance with the invention, an electronic sourcing system and method used by the system are provided. The system includes a computer that maintains a catalog database of data including product information (such as product identification information, and descriptive information) relating to catalog items available from vendor product catalogs, and a means for building (generating) a requisition including at least one requisitioned item. Information at least partially identifying an item desired to be requisitioned is entered by a user, and utilized by a means for searching the database for catalog items matching that information and for selecting at least one catalog item located as a result of the search. Text describing the catalog items, and images of the items, may be viewed. Data identifying selected catalog items are communicated to the requisition building means, which generates a requisition including entries for items corresponding to the selected catalog items. Additionally, the invention includes a means for checking the availability in one or more inventory locations of the corresponding desired catalog items, and for generating one or more purchase orders for desired items from inventory locations stocking the items.

Brief Description of the Drawings

The above and other objects and advantages of the invention will be apparent from consideration of the following detailed description, taken in
5 conjunction with the accompanying drawings, in which like reference characters refer to like parts throughout, and in which:

FIG. 1A is a block diagram showing one exemplary embodiment of the overall system of the
10 present invention;

FIG. 1B is a block diagram showing another exemplary embodiment of the overall system of the present invention;

FIG. 1C is a block diagram showing a portion
15 of the embodiment of FIG. 1A in greater detail;

FIG. 2 is a block diagram showing the flow of control and interaction between the various programs and data screens of the programs used for requisition management and vendor catalog searching of the present
20 invention; and

FIG. 3 is a block diagram showing a portion of a system (Fisher RIMS) for requisition management, including the electronic sourcing system of the present invention.

25 Detailed Description Of The Invention

FIGS. 1A and 1B show preferred embodiments of the electronic sourcing system 5 of the present invention. As shown in FIG. 1A, a local computer 20, which is preferably located at or near a Customer site
30 and the site of Just-In-Time ("JIT") Inventory, is preferably used by an on-site Customer Service Representative ("CSR") dedicated to a Customer to assist that Customer in requisitioning items needed.

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Local computer 20 includes conventional color monitor 22 and alphanumerical keyboard 24 including twelve function keys F1, F2, F12. Local computer 20 is also coupled to printer 26.

5 Local computer 20 is preferably a conventional microcomputer (such as a 386-, 486- or Pentium-class personal computer) capable of operating the required programs and of transmitting and receiving the required communications, running the OS/2 operating
10 system 32 and also running the CICS OS/2 application 34, both of which are available from IBM.

Electronic sourcing system 5 also includes a requisition/purchasing system 40, preferably but not necessarily the Fisher RIMS system, and a search
15 program 50 that is capable of searching through large volumes of information quickly and accurately. Preferably but not necessarily, the Technical Viewer 2 search program ("TV/2"), available from IBM, is used as search program 50. As shown in the embodiment of FIG.
20 1A, Fisher RIMS 40 and TV/2 search program 50 are run by local computer 20.

Fisher RIMS system 40 is comprised of numerous program modules, including several programs 44, which operate within CICS environment 34 of OS/2
25 operating system 32. Programs 44 include, among others, Requisition Management ("REQI") program 44A, Inventory Sourcing program or programs 44B, Requisition Maintenance program 44C, Customer Variable program 44D, and Order Header program 44E, each of which will later
30 be described in greater detail. REQI program 44A is most often the RIMS program 44 that interfaces with TV/2 search program 50.

Fisher RIMS system 40 also includes several Fisher RIMS databases 42. These databases 42
35 preferably include requisition databases 42A, inventory

databases 42B, and customer-specific databases 42C, each maintained within OS/2 operating system 32.

Local computer 20 also preferably runs Shell program 52, which operates under search program 50 and is used to customize search program 50 to generate Order Lists 48 (shown in FIG. 1C) with particular fields of formatted data about the items selected using search program 50. Local computer 20 is preferably capable of running both a RIMS program 44 and Shell program 52 at the same time (i.e., in a multi-tasking environment), but the user of local computer 20 usually sees only RIMS program 44 or Shell program 52 at one time in the foreground on monitor 22.

Local computer 20 is also provided with a catalog database 36 comprised preferably of at least two vendor product catalogs. The catalogs, and hence catalog database 36, preferably include such information as part number, price, catalog number, vendor name or I.D., and vendor catalog number, as well as textual information and images of or relating to the catalog products. The nature of the business that the Customer using electronic sourcing system 5 conducts will determine which product catalogs are made a part of catalog database 36.

A feature of the present invention is the ability to search multiple catalogs from different suppliers. For example, catalog database 36 can contain the catalog or catalogs published by a vendor Distributor, having Distributor's catalog numbers for all listed products and vendor manufacturer's part numbers for many of the listed products. Catalog database 36 can further contain catalogs published by some of the vendor manufacturers, listing the manufacturers' part numbers for certain products correspondingly listed in the Distributor's catalogs

and for certain products not listed in the Distributor's catalogs. Catalog database 36 can further contain catalogs published by outside suppliers, whether other manufacturers or other
5 distributors, listing such vendor's products different from those in the Distributor's catalogs.

Where the Fisher RIMS system is in use with electronic sourcing system 5, a host computer 10 located at a Distributor site is also provided, as
10 shown in FIG. 1A. Host computer 10 controls all inventory, pricing and requisitioning operations of the Distributor's regularly stocked items using host pricing and inventory databases 11. Host pricing and inventory databases 11 may include such information as:
15 descriptions of the items and the quantities thereof available at a particular Distributor warehouse and at other Distributor warehouses; item records for each Product regularly sold by the Distributor; discount records by Customer; and cross-references from the
20 Distributor's catalog number to its corresponding vendor's part (catalog) number and to similar corresponding catalog numbers of other vendors (suppliers or distributors) for the same Product.

Host computer 10 and local computer 20 are
25 preferably linked point-to-point or in a network employing the formats and protocols of IBM's System Network Architecture ("SNA"). Host computer 10 can be substantially any mainframe or minicomputer capable of running the desired programs and conducting the
30 required communications. Preferably, host computer 10 is a mainframe computer, such as an IBM Model 3090, running the MVS operating system, the MVS-CICS application and a Virtual Telecommunication Access Method communications network.

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As shown in FIGS. 1C and 2, interface 60 is also a part of electronic sourcing interface system 5. Interface 60 communicates shared data between requisition/purchasing system 40 and search program 50.

5 Interface 60 is preferably based upon the dynamic data exchange ("DDE") protocol provided by OS/2 operating system 32. As shown in FIG. 2, interface 60 preferably includes three linking programs to interface requisition/purchasing system 40 and search program 50:

10 ESRC program 70, ESCP program 80 and DDE LINK 90.

A typical data exchange may begin with requisition/purchasing system 40 (which, in the illustrated embodiment, is the Fisher RIMS system) requesting information from catalog database 36 via

15 search program 50. Once a search by search program 50 has been completed, the selected information will be communicated to requisition/purchasing system 40 via interface 60.

Alternatively, if the search of catalog

20 database 36 is initiated from search program 50, the information selected from the search is returned to requisition/procurement system 40 via interface 60.

The start up of electronic sourcing system 5 (FIG. 1A) may be user-initiated or automatically

25 started when the operating system, preferably OS/2 system 32, is brought up on local computer 20. An application-name string 61 must be identified to label interface 60. As shown in FIG. 1C, electronic sourcing system 5 by convention will use "TV2V123," "TV2V124,"

30 "TV2V125," etc. as application names 61 supporting the user's requesting service.

Preferably, application names 61 correspond to virtual terminal sessions that exist in the CICS system 34 of requisition/purchasing system 40. There

35 will be a one-to-one correspondence between

applications started (such as Shell 52) and CICS virtual terminals in use at a location of requisition/procurement system 40 (such as REQI program 44A).

Local computer 20 will query OS/2 operating system 32
5 to determine the next application-name string 61 to create at start-up. The application-name strings 61 will be created in sequence with V123 being created first, V124 created second, etc. Each application will create only one application name-string 61 to support
10 its user in the CICS environment 34.

If the Fisher RIMS system has been selected as requisition/purchasing system 40, and the TV/2 search program has been selected as search program 50, CICS OS/2 applications 34 must share a workstation with
15 a TV/2 search program 50.

The data passed by interface 60 preferably comprise all or a subset of the following twelve fields: vendor name, vendor number, vendor part (catalog) number, product description, bid price, list
20 price, keyword, page number, quantity, unit, catalog text, and catalog images. Because of the amount of data for catalog images present in database 36 and viewed on monitor 22, these data are usually not passed via interface 60. Any of the above-listed fields may
25 be filled by requisition/purchasing system 40 prior to requesting a search of catalog database 36 by search program 50. However, requisition/purchasing system 40 is not required to pass any data to search program 50. If a field is not passed, that field will be filled
30 with spaces. The fields that are filled with data will assist search program 50 in executing its first search against a specific catalog contained in catalog database 36.

A search priority exists when more than one
35 field is provided by requisition/purchasing system 40.

5 matching the search criteria. At that time, the search will return the matching product information to requisition/purchasing system 40 and stop at the highest priority resulting in a match.

The operation of electronic sourcing system 5 of the present invention will now be more particularly described in the context of FIGS. 1A, 1C, 2 and 3. In FIGS. 2 and 3, the rectangles represent data screens as well as programs associated with those data screens. The rounded rectangles represent programs not associated with data screens such that, while these programs are running, the prior data screen may remain visible without, necessarily, being operational for the input of data. The programs associated with the data screens enable the user of local computer 20 to display and modify the contents of various tables associated with particular data screens. The following description illustrates the use of the Fisher RIMS system as requisition/purchasing system 40, and the TV/2 search program as search program 50. However, it will be understood that the present invention is not limited to such system or program.

Requisitioning on Fisher RIMS system 40 in context of
the electronic sourcing system 5 of the present
invention is illustrated in pertinent part in FIG. 3
(and is fully described in Application Serial No.
08/042,168). As data (e.g., Account Number,
Requisition Number and Stock Numbers) associated with a
single requisition are entered through the various data

screens on local computer 20, that computer creates a set of Requisition Tables (including a Requisition Item Table 46, shown in FIG. 1C) for that particular requisition. The Requisition Tables are stored in
5 Requisition databases 42A (shown in FIG. 1A), and can be accessed by local computer 20 using the Requisition Number to find the desired table.

The first step in creating a requisition in Fisher RIMS system 40 involves entry by the user of
10 information in the Order Header program 44D (shown in FIG. 1A), which has an associated Order Header data screen 100 (FIG. 3). A sample of an actual Order Header data screen 100 is set forth in Appendix I. The user enters an Account Number, which generally causes
15 the correct name and address associated with that Account Number to be entered into the appropriate fields of Order Header data screen 100. The user must also enter a Requisition Number in the appropriate field of the Order Header screen 100. Various
20 additional information may also be entered.

At the bottom of Order Header data screen 100 are several fields that describe the function of various function keys. Function keys F6, F9, and F10 all cause the system to jump to a new RIMS program 44 or data screen in Fisher RIMS system 40. For example,
25 pressing the F9 key causes the system to jump to RIMS Customer Variable program 44E (FIG. 1A) and its associated Customer Variable Header data screen 104 (FIG. 3). Customer Variable Header program 44E with
30 its associated Customer Variable Header data screen 104 allows the user to enter and edit information that the particular customer desires to be associated with the requisition due to requirements of the customer's internal accounting system or other systems. Pressing

the F10 key will cause the system to enter the Inventory Sourcing program or programs 44B.

Pressing the F6 function key from the Order Header data screen causes Fisher RIMS system 40 to jump
5 to REQI program 44A (FIG. 1A). The screen associated with REQI program 44A is Requisition Management data screen 110 (FIG. 3) illustrated in Appendix II. Within REQI program 44A and its associated Requisition Management data screen 110, Requisition Item Table 46
10 (shown in FIG. 1C) is a graphical representation of a database table in which certain fields are completed on a list of items that are to be listed, sourced and ordered. Representative Requisition Management data screens 110 showing a Requisition on Requisition Item
15 Table 46 are set forth in Appendices II, VIII and IX. It should be appreciated that data about each item is stored in Requisition Item Table 46, some of which is displayed on the screens shown in Appendices II, VIII and IX. The data stored can additionally include
20 customer variable data. That is, the fields on Requisition Item Table 46 can be expanded to include specific item details used by a particular customer, especially when reports from requisition databases are transferred to the customer's host computer (not
25 shown). The field structure for these data is maintained in customer-specific databases 42C.

The entire process of listing, sourcing and ordering products using Fisher RIMS system 40 can be completed without any reference to a search program 50.
30 As described herein, however, limited fields on specific items can be transmitted from Requisition Item Table 46 to search program 50, and more completed fields of the same or different items can be received from the search program 50 into a Requisition Item
35 Table 46.

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At the bottom of Requisition Management data screen 110 (FIG. 3), and Appendices II, VIII and IX) are several fields which describe the function of various function keys (F1, F2, etc.). The user uses
5 REQUI program 44A and its associated Requisition Management data screen 110 to enter the catalog or part numbers and quantities of the various items being requisitioned.

The Account Number and Requisition Number
10 are automatically passed to REQUI program 44A and its associated Requisition Management data screen 110, and displayed at the top of the Requisition Management data screen 110 in the relevant fields. For example, in the exemplary Requisition Management data screen 110 shown
15 in Appendix II, the number 218848 has been entered in the Account Number field, and the notation "TEST NEW ONE" has been entered in the Requisition Number field.

The user can next enter desired items and quantities for the requisition. Each desired item may
20 be identified by entering its distributor catalog or part number, if known, in the field below the STOCK NBR label on the appropriate line in Requisition Item Table 46 shown on Requisition management data screen 110. In the sample Requisition Management data screen 110 shown
25 in Appendix II, the part number 13246818F has been entered in the STOCK NBR field of Line 001. Once the user has entered such information at least partially describing a desired item on Requisition Management data screen 110, he or she may wish to initiate a
30 search of catalog database 36 to find all the part numbers contained in catalog database 36 that match the part number entered or other information on Requisition Management screen 110. If so, the user enters the letter "S" (for "Select") on the line number of the
35 item that he or she wishes to search in catalog

database 36. The letter "S" has been entered to the left of line 001 on the sample Requisition Management data screen 110 shown in Appendix II. Any number of items, or no items, listed on Requisition Management data screen 110 may be marked with "S."

A user may not always have information relating to the catalog or part number for the particular items that are to be requisitioned using Fisher RIMS system 40. Or, the user may have relevant information about an item from a particular vendor but may wish to locate information about the same or a similar product available from other vendors. Or, the user may simply know the name of the item that he or she wishes to requisition. In any of these cases, the user alternatively or additionally could enter text at least partially describing the product to be requisitioned in the "DESC" field of Requisition Management data screen 110 (e.g., Appendix II). Then, the user would initiate the electronic sourcing system 5 of the present invention to search the vendor product catalogs contained in catalog database 36. Alternatively, the user could initiate search program 50 of electronic sourcing system 5 without having first entered information in RIMS system 40 about the product to be requisitioned.

Once the user has built or partially built Requisition Item Table 46 by filling the line numbers (entries) on Requisition Management data screen 110 and selecting those lines to be searched, he or she is now ready to initiate electronic sourcing system 5. Pressing the F11 function key, which is labelled "Catalog," from Requisition Management screen 110 accesses electronic sourcing system 5.

Referring now to FIG. 2, after the user presses the F11 key on Requisition Management data

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screen 110 of Fisher RIMS system 40, Fisher RIMS system 40 will pass program control via XCTL 74 to ESRC program 70. XCTL 74 is a protocol within CICS application 34 that directs the execution of a program, as would readily be understood by one of ordinary skill in the art. As control is passed from REQI program 44A to ESRC program 70, ESRC-Comm-AREA data structure 76 is passed. ESRC-Comm-AREA is a layout of storage area in local computer 20 created by REQI program 44A to pass data to ESRC program 70, as would readily be understood by one of ordinary skill in the art. ESRC program 70 will then LINK 82 to ESCP program 80 with ESCP-Comm-AREA 84. LINK 82 is a protocol within CICS application 32 that directs the execution of a program, as would readily be understood by one of ordinary skill in the art. Data at least partially describing one item desired to be requisitioned is passed to ESCP program 80 via LINK 82. Thus, if there are five items to be passed to ESCP program 80, there will be five LINKS 82 made. If no items are to be passed to ESCP program 80, only one LINK 82 is made to ESCP program 80. ESCP program 80 can return up to twenty items per LINK 82; in other words, for each item desired to be requisitioned up to twenty desired catalog items contained in catalog database 36 may be sent to REQI program 44A and its associated Requisition Management data screen 110 of Fisher RIMS system 40. If a user chooses to terminate the sourcing process, ESRC program 70 would return to REQI program 44A and its associated Requisition Management data screen 110 without processing any of the records.

ESCP program 80 links with Shell 52 and TV/2 search program 50 via DDE LINK 90. Shell 52 and TV/2 search program 50 search in catalog database 36 for the item or items desired to be requisitioned that has or

have been passed from ESRC program 70 to ESCP program 80. Catalog database 36 contains the following fields: vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit, catalog text, and catalog images. Shell 52 and TV/2 search program 50 may, if desired, search the keyword field or any other field shown in Appendix VII. However, not all fields may appear on the monitor 22 of local computer 20, although they are stored in memory.

After the user has pressed the F11 key from Requisition Management data screen 110 and control has been passed from REQI program 44A to Shell 52 and TV/2 search program 50, monitor 22 of local computer 20 will show a footer bar representative of Shell 52 at all times that the user is in the TV/2 search program 50. The footer bar, which also includes appropriate icons, is used to make choices within Shell 52. A sample of the footer bar (without the icons) representing Shell 52 is shown at the base of Appendices III-VII. In the screens of Appendices III-VI, this footer bar is active to select functions. In the screen of Appendix VII, this footer bar is in the background and another footer bar is used to select functions.

If the user has marked an item on Requisition Management data screen 110 with the designation "S," the entered data at least partially describing that item will be sent to Shell 52 and TV/2 search program 50A in the manner described above. TV/2 search program 50 will search catalog database 36 for all items that match the search field sent over from REQI program 44A and Requisition Management data screen 110. When a search is performed in Shell 52 and search program 50, a Hit List 47 is produced, as indicated in FIG. 1C. The user would see on monitor 22 of local computer 20 a

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When multiple catalogs are present in catalog
15 database 36, search program 50 contains a function
associated with the catalog symbol of the footer bar
and screen window (not shown) for selecting catalogs to
be searched. For example, the following choices might
be available:

- Fairmont and NIST catalogs list products not
in the Fisher General Catalog, but many of the products
listed in the Promega catalog are also listed in the
Fisher General Catalog (identified by corresponding
Fisher catalog numbers). If searching for a molecular
biology product, the user would select the Fisher and
Promega catalogs. TV/2 search program 50 would then
concatenate those two catalogs to perform a keyword,
catalog number or other subject search and generate a
Hit List of pages (panels) from both catalogs where the
searched-for items were found. Similarly, the user
might select the Fisher and NIST catalogs when
searching for quality control standards or might select

the Fisher and Fairmont catalogs when searching for supplies.

If the search is initiated from requisition/purchasing program 40, for example from the Requisition Management data screen 110 of the Fisher RIMS system, then the catalogs searched can be determined by the information provided. If, for example, Promega is indicated as the desired requisition item vendor, interface 60 would direct TV/2 search program 50 to search the Fisher and Fairmont catalogs. If no catalog delimiting information is entered for the item desired to be requisitioned, interface 60 would be set up to search only the Fisher catalog or, alternatively, to search all catalogs in catalog database 36.

Once Hit List 47 has been created by TV/2 search program 50, the user can view it and select particular ones of the located catalog items for Order List 48 that is being created in Shell 52, as shown in FIG. 1C. For example, a search for "Eco RI," a restriction enzyme, may have uncovered five entries in the Promega catalog (identified by Promega catalog numbers R6011, R6012, R6013, R6015 and R401) and five entries in the Fisher catalog (identified by Fisher catalog numbers PRR6011, PRR6012, PRR6013, PRR6015 and PRR4014). If the user selected PRR6012 from the Fisher catalog, Fisher catalog number PRR6012 would be added as an entry to the Items Selected screen, with VN00000001 (identifying the vendor as distributor Fisher) accompanying it in the Order List 48. If the user instead selected the item identified by catalog number R6012 from the Promega catalog, then Promega catalog number R6012 would be added as an entry to the Items Selected screen, with VN00005860 (identifying the vendor as Promega) accompanying it in the Order List. In either case, the information transmitted to REQI

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program 44A of Fisher RIMS system 40 would also include description, list price and other information taken from the catalog database from which the selection was made. When the resultant requisition is sourced,
5 however (as described below), Distributor's mainframe host computer 10 would recognize the entry for the item from vendor Promega's catalog (R6012, 00005860) as corresponding to that same item available from Fisher's catalog (PRR6012, 00000001). The system thus would
10 transmit back the Customer's contract price and availability for corresponding item PRR6012 as a type 03 (regular Distributor) product available from one of distributor's inventory locations. A purchase order then would be generated for this corresponding
15 Distributor item as further described below.

By contrast, an item selected from the Fairmont catalog would be transferred to Fisher RIMS system 40 with the vendor number for Fairmont, and would be recognized during inventory sourcing as either
20 a type 07 product (that Distributor orders from Fairmont) or as a type 05 item (that Customer orders from Fairmont as an Administrative Purchase). In either of these two cases, a purchase order would be generated for an item, corresponding to a desired
25 catalog item, that is identified by the same Fairmont catalog number that was requisitioned.

After the desired item has been selected from the Hit List 47 by double clicking on that item TV/2 search program 50 can be used to bring up for viewing
30 on monitor 22, or printing on printer 26, images and text from the catalog page on which the item selected is located. For example, as shown in Appendix III, page 1106 of the Fisher catalog has been selected. If the user double clicks on highlighted page 1106, the
35 text shown in Appendix IV (and related images, not

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If more than one item on Requisition Management data screen 110 had been marked with an "S," the process described above is repeated.

If the user desires to do additional
5 searching in catalog database 36 that is not connected to catalog or other items that have been listed on Requisition Management data screen 110 of Fisher RIMS system 40, he or she can click the box on footer bar of Shell 52 that is labelled "Search." Then, a Search
10 screen comes up on monitor 22 of local computer 20. An exemplary Search screen is shown in Appendix VII. In this screen, the usual footer bar is visible in the background, but is not active.

Using the Search screen, a user can search
15 catalog database 36 by page, text description, part number (where the user has the further option to search by Fisher part number, for example if Fisher is to be the desired vendor), Vendor part number, vendor name (for vendors other than Fisher), or bulletin. Stock
20 numbers specific to the customer can also be present in catalog database 36 and searched using the screen of Appendix VII. "Bulletin" refers to an additional vendor publication with detailed product information that may not be included in a vendor catalog.

25 Searching for information contained in bulletins may be done by bulletin number, but only if bulletins have been made a part of catalog database 36. For purposes of this disclosure, bulletins when included in a catalog database are considered a type of catalog.

30 After the user has entered the field to be searched on the Search Screen, the user clicks on the "SEARCH" box near the bottom of the Search Screen. A Hit List 47 indicating all items from catalog database 36 that match the search field that was entered on the
35 Search Screen then is generated. Then, in a manner

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selected will replace the original item on Requisition Item Table 46 of Requisition Management data screen 110. Additional items that were selected from the search that was performed in TV/2 search program 50 will be added to Requisition Item Table 46 of Requisition Management data screen 110.

Interface programs ESCP 80 and ESRC 70 (FIG. 2) are used to send data to REQI program 44A (FIG. 1A) and its associated Requisition Management data screen 110 (FIG. 2) about the items that were selected from the search performed by TV/2 search program 50. To the user, it appears that all the items selected from the search are sent over to Fisher RIMS system 40 at the same time. However, ESCP program 80 receives multiple items from TV/2 search program 50, and then sends one item at a time to ESRC program 70. ESRC program 70 then waits until all items have been passed to it before sending data about the items to REQI program 44A and its associated Requisition Management screen 110 of Fisher RIMS system 40. The information transmitted to Requisition Management screen 110 from the Order List built in TV/2 search program 50 and sent through ESCP program 80 and ESRC program 70 includes vendor name, vendor number, vendor part (catalog) number, product description, list price, page number, quantity, unit and catalog text. However, not all of the above-listed fields may be displayed on screen at all times. ESRC program 70 passes control back to Fisher RIMS system 40 via XCTL 78. The requisition number, customer identification and release number (or other data identifying the requisition) will be passed in MENU-Comm-AREA 56 to confirm that the returned data are associated with the proper requisition. MENU-Comm-AREA 56 is a layout of storage area within local

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computer 20, as one of ordinary skill in the art would readily understand.

As previously indicated, multiple LINKS 82 may have been created between program ESRC 70 and
5 program ESCP 80 if multiple lines were selected (with the "S" symbol) in Requisition Management data screen 110. After completing the first search, and any additional searches initiated with the footer bar, an order list is created and returned to Requisition Item
10 Data Table 46 associated with Requisition Management data screen 110. At this point, the next item is sent from a LINK 82 through program ESCP 80 and DDE LINK 90 to the TV/2 program 50, and a hit list resulting from the corresponding search is displayed on monitor 22.
15 The process of searching, displaying, selecting and ordering is repeated until all of items stored by LINKS 82 have been sent to TV/2 program 50 and searched. At the end of each of these searches, an order list may be created and returned to Requisition Item Data Table 46
20 or cancelled. Once the last item is completed, ESRC program 70 passes control via XCTL 78, and a Requisition Management screen 110 is displayed, reflecting all of the additions and changes that have been made to the Requisition Item Data Table 46
25 associated with that requisition.

A limit is normally placed on the number of items of an order that may be returned to the Requisition Item Data Table 46. For example, if the maximum size in Requisition Item Data Table 46 is set
30 at 200 lines, one could create a limit on the size of each order list at 20, 50, 100 or even 200. A corresponding limit can be placed on the number of LINKS 82 that can be established concurrently from the same requisition. Setting a limit of five LINKS 82 and
35 forty items per order list would be one way of avoiding

situations in which a Requisition Item Data Table 46 reaches its limit (e.g., 200 lines) before all of the searches (five) have been completed and order lists (five of forty items each) have been returned.

5 At this point in the use of Fisher RIMS system 40, as many entries (lines) of Requisition Management data screen 110 have been built up (some through use of electronic sourcing system 5) as are necessary to complete the requisition. A sample of
10 such a Requisition Management data screen 110, in which four lines have been entered identifying desired items to be requisitioned (including catalog items located as a result of a catalogs search), is shown in Appendix VIII. The next step is that of inventory sourcing
15 using RIMS inventory sourcing program or programs 44B in Fisher RIMS system 40, as shown in FIG. 3. Inventory sourcing is the process of determining what inventory will be used to fill the requisition. Pricing is also performed in this step when it is
20 called for. Inventory sourcing in Fisher RIMS system 40 is performed on both local computer 20 and host computer 10.

Within Fisher RIMS system 40, a Requisition Item Table 46, as shown in Appendix VIII (similar to
25 that shown in Appendix II, but including more items), can be inventory sourced by pressing the key F6 from REQI program 44A represented by Requisition Management data screen 110 shown in Appendix VIII (and in Appendix II). Since inventory records on JIT items (type 01 and
30 06) are maintained in inventory database 42B, lines 002 and 004 in Appendix VIII show the availability of these items in inventory (49 items available for line 002, and 0 items available for line 004). After the F6 key has been pressed, host computer 10 searches its host
35 pricing and inventory databases for availability of the

30

For example, as shown in Appendix IX, product type "01" for the item on line 002 indicates that the requested requisition item is available as Distributor-owned inventory in the JIT inventory that the vendor/distributor maintains near local computer 20, either for the particular Customer or for a group of customers. Product type "06" for the item on line 004 indicates that this item is available for the requisitioner employed by the Customer from inventory

owned by Customer's purchasing department but managed by local computer 20. Product type "03" for the items on lines 001 and 003 indicates that these are regular Distributor items that the communication between

5 Distributor's host computer 10 and local computer 20 determined were available in sufficient quantity at one or another of Distributor's general warehouses designated "DEL" and "EDC" in the location ("LOC") field. Product type "05" (not shown in Appendix IX)

10 indicates that a requisitioned item is to be purchased by Customer directly from an outside supplier, using an Administrative Purchase Order that local computer 20 creates and prints (or transmits) for Customer.

The inventory sourcing process described

15 above also determines the net prices shown in Appendix IX for each item. Type 01 and type 03 items are priced by Distributor's host computer 10 searching host databases 11, which contain various formulae and tables of Distributor's pricing agreement with the

20 Customer. Host computer 10 also prices any type 04 or type 07 item, if present. These prices were transmitted to local computer 20 along with the location and availability information for the type 01 items. Prices for type 05 and 06 items are maintained

25 in the local computer's 20 own databases 42B and 42C.

From Requisition Maintenance data screen 120, the CSR can accept all lines of the requisition -- if all lines show the status "S" for sourced in the "STAT" field of Requisition Maintenance data screen 120 -- by

30 pressing the F6 function key. If item errors are found at step 116 in the data transmitted back to local computer 20 from host computer 10 during the sourcing process, then those particular items for which error was found will be returned and displayed by local

35 computer 20 in Requisition Management data screen 110.

Once a requisition has been inventory sourced and accepted by the CSR, it can be converted to one or more purchase orders, as represented by step 114 in FIG. 3. For example, the requisition represented by
5 the Requisition Item Table 46 of Appendix IX, if accepted without further revision by pressing function key F6 ("ACCEPT"), would result in the generation of the following three purchase orders:

- 10 A. Line 002 would be ordered from on-site distributor-owned inventory;
- B. Line 004 would be ordered from on-site customer-owned inventory (a transfer internal to the customer); and
- 15 C. Lines 001 and 003 would be ordered, respectively, from Distributor's "DEL and "EDC" warehouses.

Of these three purchase orders, Orders A (type "01") and C (type "03") are shared between host computer 10 and local computer 20 (as shown in FIG. 3).
20 Upon execution of Order A, the inventory records on both computers for Distributor-owned JIT inventory are adjusted synchronously. A purchase order is generated by host computer 10 immediately thereafter. Order B (type "06") is executed and stored only on local
25 computer 20. Upon execution of Order B, the inventory record on local computer 20 is adjusted (the host computer contains no records on Customer-owned JIT inventory or on items ordered by Administrative Purchases). For Administrative Purchases (type 05
30 items), a purchase order is printed, and mailed or faxed, locally by computer 20 as indicated at step 118 in FIG. 3, or via host computer 10 via EDI (if EDI was selected in the Header of Appendix I and an EDI transfer arrangement existed with vendor).

It is an important feature of the present invention that a requisition may be filled by searching and selecting from a catalog database of items, inventory sourced, and the resulting requisition then
5 divided into one or more purchase orders. This contrasts with known prior art CD-ROM catalog systems in which only a single purchase order to a single supplier is built without reference to inventory records, and in which the information used to create
10 the purchase order is limited to that contained in the product catalog of a single vendor.

Electronic sourcing system 5 also contains the capability to log messages returned from inventory sourcing program or programs 44B of Fisher RIMS system
15 40. Messages will be logged for any of the following reasons: (1) part number changes for line sent to ESCP program 80; (2) list price from inventory sourcing program 44B differs from list price returned from ESCP program 80; (3) vendor name from inventory sourcing
20 program 44B differs from vendor name returned from ESCP program 80; (4) on a "master or blanket" order, in which local computer 20 tracks the amount of purchases against a blanket or cumulative sum available and/or in which there is limited access to products or limited
25 access to certain users, the part has already been entered on another line; and (5) the maximum number of line items has been reached.

Referring again to FIG. 2, a user is able to view the messages returned by pressing the ALT F11
30 function keys in REQI program 44A and its associated Requisition Management screen 110 in Fisher RIMS system 40. After the ALT F11 keys have been pressed, REQI program 44A will link to ESMV program 112 via XCTL link 111 for displaying the message log created. ESMV
35 program 112 is a function of Fisher RIMS system 40.

B
ESMV program 112 allows the user to page through the messages created and then to return to Requisition Management screen 110. A sample ESMV message screen ~~81~~ associated with ESMV program 112 is shown in

5 Appendix X.

10 The first two messages of the message screen of Appendix X indicate that a part number for line 001, identified as part number 53610, was successfully added in substitution for a prior part originally entered as
15 part number S100-06 (from the Fisher Scientific catalog). These messages were generated because the originally entered part (S100-06) did not exist in the Fisher catalog, but its corresponding part number S100-06 (that was located by another search in another
20 catalog) did exist in that other catalog. The next message indicates that the vendor for part number 53610 was changed in line 001 from "VN00000001" -- meaning that the originally requested vendor (Fisher) was changed. The next two messages indicate that two other
25 part numbers (53620 and 53650) were successfully added as lines 002 and 003.

30 In the previous description, an exemplary embodiment has been described in which a Distributor CSR operates Fisher RIMS requisition/purchasing system 40 and IBM TV/2 search program 50 as part of a Just-In-Time activity for a particular customer, Customer. Electronic sourcing system 5 of the present invention may also be used, however, in other requisition and purchasing environments.

35 In some embodiments, a Customer end user or a Customer purchasing employee operating REQI program 44A of Fisher RIMS system 40 may also operate TV/2 search program 50. Operating either from a terminal connected to local computer 20, or from a separate local computer networked with the CSR's local computer 20, such a

34

Customer end user can select requisitioned items for inclusion in Requisition Item Table 46 by keystrokes viewing that screen and by searches in TV/2 search program 50 which are transmitted to the Requisition

5 Item Table 46 via interface 60, as described above. Depending upon his or her authorization level and access code to Fisher RIMS system 40, the Customer purchasing employee may be able to source the final requisition and/or accept the sourced requisition, as

10 shown in Appendix IX. If, however, the sourced requisition was split into more purchase orders than the Customer purchasing employee might prefer, the intervention of the Distributor CSR could be invoked to revise and re-source the requisition (causing, for

15 example, certain items originally sourced as type 01 products to be sourced for this order as corresponding type 03 products from a common Distributor warehouse with other type 03 products on the requisition). The Customer end user may have authority only to build the

20 Requisition Item Table, but then calls the Distributor CSR or Customer purchasing employee to source and accept the requisition.

As shown in FIG. 1B, the present invention also has application to Distributor's regional customer

25 service locations where a large number of CSRs may be placing orders directly on Distributor's host computer 210 for thousands of different customers who call in. In that environment, search program 250, which preferably comprises TV/2 search program 250, and

30 catalog databases 236 are stored on file server 200. In this environment, file server 200 is a large personal computer, a work station or a mini-computer such as an IBM AS/400. Alternatively, the server 200 and a minicomputer (such as an IBM AS/400) can be

35 independently connected to each local computer 200.

35

Each CSR has a local personal computer 220 having a monitor 222, a keyboard 224 and a printer 226. Local computer 220 is provided with programs including requisition/purchasing program 240, Shell program 252
5 and a graphic user interface 254 (preferably EASEL Workbench program 254 for OS/2) for listing items. One or more of these may be copied from server 220 when needed. Work-in-progress requisitions 260 are established for each customer and are attached to
10 graphic user interface 254. Server 200 maintains complete requisitions 242, in a manner similar to the manner in which local computer 20 maintains requisition databases 42 in the embodiment shown in FIG. 1A.

Normally, in such an environment, the CSR
15 creates Order lists for customers by entering Distributor catalog numbers into graphic user interface 254 and connecting to the Distributor mainframe 210 for price and availability. For this purpose, each local computer is connected to host computer 210 via a
20 phone/dataline and either a gateway or a minicomputer acting as a local host. When a customer asks for products by manufacturer part number or a competitor's catalog number, the CSR has access to cross-reference files, as earlier described, either maintained on the
25 local host or maintained on the Distributor host computer 210.

Appropriate Distributor catalogs and manufacturer catalogs then are consulted, using TV-2 search program 250 and proper selection of Distributor
30 catalogs and of catalogs and bulletins from manufacturers whose products Distributor regularly sells. Catalogs and bulletins are contained in catalog database 236. The resultant lists of products are then transferred by Shell program 252 to a work-in-progress
35 requisition 260, and then entered from graphical user

interface 254 directly onto Distributor's mainframe
computer 210 as orders from the applicable customer to
Distributor. The CSR, knowing which items are
available from which Distributor warehouse and direct-
5 shipping supplier, then may divide the customer's
requested items into multiple orders, so as to assure
that each order is completely filled by a single
shipment. In this regional environment, file server
200 or the minicomputer acting as local host can
10 maintain files of completed requisitions 242 which can
be subsequently used for generating reports for
customers in the region. Reports can be generated
either from such local data or from data periodically
downloaded to the local host from Distributor's host
15 computer 210.

Another environment where the present
invention can be used is in Distributor's purchasing
department. The item lists created in that environment
can include lists of items Distributor does not
20 regularly stock or purchase, but for which particular
customers indicate a requirement to buy. The file
server 200 in that environment contains TV-2 search
program 250, EASEL graphical user interface 254 and
multiple catalog databases 236 containing catalogs
25 similar to the Fairmont and NIST catalogs described
above for the embodiment of FIG. 1A. The Distributor
purchasing employee can receive by phone or via
Distributor's host computer 210 requests for items not
shown on Distributor's host databases either as regular
30 products (type 03) or third party items purchased for
particular customers on a regular basis (type 07
items). Transmitting certain such requirements to the
applicable Distributor purchasing employee can be a
function of the inventory sourcing routines of host

computer, or may be directed by the Distributor CSR interfacing with the customer.

The Distributor purchasing employee can search appropriate catalogs using TV-2 search program 5 250, and can transfer the "Items Selected" to a product list in EASEL interface 254. The resultant list might display, for example, supplier part number, supplier, list price, product and catalog page, with access to other fields such as complete description (up to 500 10 characters). The Distributor purchasing employee can then either forward the information to the CSR, customer end user or customer purchasing employee who requested the item (to confirm that the requirement is being met) or contact the supplier to confirm pricing 15 and availability. Once responses from either or both have been obtained, the Distributor purchasing employee can use the item list in EASEL interface 254 to create one or more of the following purchase orders:

- 20 1. an order from the customer to the supplier (an Administrative Purchase);
2. an order from the customer to Distributor (for a type 07 product); and
- 25 3. an order from the Distributor to the supplier (usually providing for direct shipment from the supplier to the customer or to a JIT site maintained by Distributor for the customer).

From the foregoing description, it should be apparent that the network arrangements of FIG. 1B can 30 be used to apply the present invention in a variety of contexts. The context will dictate which catalog databases 236 are provided on file server 200: in the regional CSR environment, Distributor's catalogs can be present with a variety of catalogs and bulletins from 35 manufacturers that Distributor regularly represents and

a limited selection of outside suppliers; and in the Distributor purchasing environment, the number of outside supplier catalogs will be increased. The number of client (local) computers 220 and the number
5 and size of catalog databases 236 will help dictate what size file server 200 is required. The operating environment (regional CSR site, on-site CSR, on-site CSR networked with Customer end users and with purchaser personnel or Distributor purchasing site)
10 will also affect the catalog databases 236 included, file server 200 size and requisition/purchasing program 240 used. In some situations (e.g., purchasing) each client computer has an independent copy of requisition/purchasing program 240; in others (e.g.,
15 on-site CSR) a single copy of the requisition/purchasing program 240 is maintained with associated local databases on the server 200. Where the requisition/purchasing program 240 and local databases are maintained on file server 200, the local database
20 is updated after each use for the benefit of subsequent users. For example, in an environment using Fisher RIMS for requisition/purchasing program 240, if a NIST standard is selected using TV-2 search program 250 and ordered using Fisher RIMS 240 (as either a type 07
25 purchase from Distributer or a type 05 administrative purchase from NIST), that item is available in the applicable database for subsequent requisitions. For example, a NIST standard ordered as a type 05 item will be stored in the local database on file server 200,
30 with NIST as the vendor for subsequent administrative purchases by Customer. A NIST standard ordered from Distributor as a type 07 item will be stored in Distributor's host databases as a type 07 available to Distributor from NIST. The local databases on file
35 server 200 will also contain records of all items

requisitioned and ordered, useful to transfer files to a Customer's computer (e.g., of purchase orders placed by that Customer in a day) or to generate reports for a Customer (e.g., or requisitions placed by each Customer
5 department and/or budget number in a week).

Thus it is seen that an electronic sourcing system including means for linking a requisition/purchasing system and a means for searching large volumes of information has been described. Persons
10 skilled in the art will appreciate that the present invention can be practiced by other than the described embodiments, which are presented for the purposes of illustration and not of limitation, and the present invention is limited only by the claims which follow.

SECRET

SubB

APPENDIX I

FISHER SCIENTIFIC RIMS
REQUISITION HEADER

DATE: 08/05/94
TIME: 07:04:57

ACCT-NBR :

NAME:
ADDRESS:

COMPANY :

REQ NBR :

RELEASE :

ORDER TYPE : R ORDER

CALLER :

HOLD/REL: I RUSH CODE: 9
FREIGHT OVERRIDE: N TAX OVERRIDE:

ATTN :

EDI PO TO HOST: N POA 855
PRT ACK: Y NBR OF COPIES: 1

BILL TO :

ACK DELV CODE: P PRINT & DELIVER

VENDOR :

REQ DELV CODE: W WALK IN

SERVICE CHARGE: 0.00

CREATED: 08-04-1994 STATUS: R

RESPONSE: KEY(S):

+F2:ADD F3:EXIT F4:UPDATE F5:REFRESH F6:ITEM F9:VAR F10:SRCE F11:CHGPO F12:DEL
1BV123

APPENDIX II

*** REQUISITION MANAGEMENT SCREEN ***

ACCT NBR: 218848 002 REQ NBR: TEST NEW ONE

COMP: 1 REL NBR:

| S | LINE | STOCK NBR | QTY | UM | PT | STKRM | XREF | SPI | UNIT PRICE | EXT PRICE |
|---|-------|-----------|------------|----|----|-------|------|----------------|------------|-----------|
| | 001 | 13246818F | 0 | CS | 03 | | | | 0.00 | 0.00 |
| | DESC: | | QTY AVAIL: | | 0 | LOC: | | FSHR WHSE: BLW | | |

| | | | | |
|-----|-------|------------|------|-------|
| 002 | DESC: | QTY AVAIL: | LOC: | WHSE: |
|-----|-------|------------|------|-------|

| | | | | |
|-----|-------|------------|------|-------|
| 003 | DESC: | QTY AVAIL: | LOC: | WHSE: |
|-----|-------|------------|------|-------|

| | | | | |
|-----|-------|------------|------|-------|
| 004 | DESC: | QTY AVAIL: | LOC: | WHSE: |
|-----|-------|------------|------|-------|

| | | | | |
|-----|-------|------------|------|-------|
| 005 | DESC: | QTY AVAIL: | LOC: | WHSE: |
|-----|-------|------------|------|-------|

RESPONSE: KEY(S):

ALL ITEMS DISPLAYED

F3:EXIT F6:SOURCE F7:BKWD F8:FWD F9:NEW F10:NONCAT F11: CATALOG F12:CNCL

General

- He

Help Catalogs Search Order List Minimize Clear Prev Next Exit

APPENDIX IV

(FSC1106)Fisher Isotemp 800 Series Programmable Ovens

Fisher Isotemp 800 Series Programmable Ovens

Three linear heat-up and cool-down stages
Talking control panel
Keypad and lighted graphics
30° to 325°C range
RS-422 serial communications capability

The latest technology at your fingertips. Accurate, easy-to-use controls allow you to program up to 3 heat-up stages and 3 cool-down stages linearly to provide the most appropriate conditions for your samples. Using the large keyboard, you can choose the heat-up or cool-down rate, the temperature you want for each stage, and the length of time you want the oven to hold each temperature. And, for projects requiring repeatability, you can duplicate the settings at any time.

Help Catalogs Search Order List Minimize Clear Prev Next Exit

APPENDIX V

(FSC1106) Fisher Isotemp 800 Series Programmable Ovens

| Model | 818F | 838F |
|-------------------------|-------------------------------|-------------------------------|
| Inside D x W x H | 16 x 12 x 16 (41 x 30 x 41cm) | 18 x 18 x 20 (46 x 46 x 51cm) |
| Shp. Wt. | 156 lb. (71kg) | 195 lb. (88kg) |
| Electrical Requirements | 230V 50/60Hz 11.3 Amps | 230V 50/60Hz 19 Amps |
| Cat. No. | 13-246-818F | 13-246-838F |
| Each | 3495.00 | 3995.00 |

Extra Shelves for 800 Series Ovens

No-tip design. Move to any position in seconds. Full Depth Shelves: Chrome-Plated Steel

Help Catalogs Search Order List Minimize Clear Prev Next Exit

APPENDIX VI

ITEMS SELECTED

| Part Number | Description | List Price |
|----------------|---------------------------|---------------|
| 13246818F | ISOTEMP OVEN MDL818F 230V | 3495.00 |

66020394660

Help Cancel Delete Delete All Order Description

APPENDIX VII

SEARCH

Page:

Search For:

Part Number: ☐Fisher ☐Vendor ☐Customer

Vendor Name:

Bulletin:

HELP SEARCH CANCEL CLEAR USER DATA EXTENDED

Help Catalogs Search Order List Minimize Clear Prev Next Exit

DATE: 07-29-94
TIME: 14:54:22

COMP: 1 REL NBR:

```

RESPONSE:          KEYS(S) :
I# ITEM(S) PROCESSED
+ F3:EXIT F6:SOURCE F7:BKWD: F8:FWD F9:NEW ITM  F10:NONCAT F11:CATALOG F12:CNCL

```

1B11V123

APPENDIX IX

RICPOMP1

FISHER SCIENTIFIC RIMS
REQUISITION MANAGEMENT SCREEN
REQ-NBR : PO NBR 001
REL-NBR :

DATE: 08-03-94
TIME: 07:44:13

COMP ID: 001
ACCT NBR : 363690 006
ORDER NBR:
SERVICE : 0.00
CARRIER :

PICKLIST REVIEWED :
ORDER: 0.00 FREIGHT:

| O LINE | PART | QTY | UOM | PRD | UNIT PRICE | SERVICE | EXT PRICE | LOC | STAT |
|--------|-----------------------|-----|------|------------|------------|---------|-----------|----------|------|
| 001 | A181 | 1 | EA | 03 | 35.30 | 0.00 | 35.30 | DEL | S |
| | ACETONE CERTIFIED ACS | | 1L | QTY AVAIL: | | 1 | | QTY REC: | O |
| 002 | 02540K | 1 | PK | 01 | 32.70 | 0.00 | 32.70 | JIT | S |
| | BEAKER GRIFFIN 250ML | | 12/9 | QTY AVAIL: | | 49 | | QTY REC: | O |
| 003 | 13246818F | 1 | EA | 03 | 3495.00 | 0.00 | 3495.00 | EDC | S |
| | PROGRAMMABLE OVEN | | | QTY AVAIL: | | 0 | | QTY REC: | O |
| 004 | A181-06 | 1 | EA | 06 | 100.00 | 0.00 | 100.00 | JIT | S |
| | ACETONE | | | QTY AVAIL: | | 0 | | QTY REC: | O |

RESPONSE: KEY(S):

+ F3:EXIT F6:ACCEPT F7:BKWD F8:FWD F9:PRINT ACK F11:M/B ERRORS F12 DELETE
1B V123

APPENDIX X

*** REQUISITION MANAGEMENT SCREEN ***

ACCT NBR: 218848 002 REQ NBR: TEST NEW ONE
COMP: 001 REL NBR:
ELECTRONIC SOURCING MESSAGES

LINE NUMBER 001 PART NUMBER 53610
PART ADDED SUCCESSFULLY

LINE NUMBER 001 PART NUMBER 53610
REPLACEMENT WAS MADE FOR PRIOR PART: S100-06

LINE NUMBER 001 PART NUMBER 53610
VENDOR CHANGED FROM: VN00000001

LINE NUMBER 002 PART NUMBER 53620
PART ADDED SUCCESSFULLY

LINE NUMBER 003 PART NUMBER 53650
PART ADDED SUCCESSFULLY

F6: RETURN F7: BACKWARD F8: FORWARD